CPC COOPERATIVE PATENT CLASSIFICATION

B67D DISPENSING, DELIVERING OR TRANSFERRING LIQUIDS, NOT OTHERWISE PROVIDED FOR (cleaning pipes or tubes or systems of pipes or tubes B08B 9/02; emptying or filling of bottles, jars, cans, casks, barrels, or similar containers, not otherwise provided for B67C; water supply E03; pipe systems F17D; domestic hot-water supply systems F24D; measuring volume, volume flow, mass flow or liquid level, metering by volume G01F; coin-freed or like apparatus G07F)

1/00 **Apparatus or devices for dispensing beverages on draught** (B67D 3/00 takes precedence; apparatus for making beverages A47J 31/00)

1/0001 . {by squeezing collapsible or flexible storage containers (B67D 1/0462 takes precedence)}

1/0002 . {specially adapted to be used in microgravity conditions, e.g. in outer space}

1/0003 . {the beverage being a single liquid (B67D 1/02, B67D 1/04 take precedence; drinking fountains E03B 9/20)}

1/0004 . . {the beverage being stored in a container, e.g. bottle, cartridge, bag-in-box, bowl}

1/0005 . . . {the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0006 . . . . {based on the timed opening of a valve}

1/0007 . . . . {based on volumetric dosing}

1/0008 . . . . {based on weighing}

1/0009 . . {the beverage being stored in an intermediate container connected to a supply}

1/001 . . . {the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0011 . . . . {based on the timed opening of a valve}

1/0012 . . . . {based on volumetric dosing}

1/0013 . . . . {based on weighing}

1/0014 . . {the beverage being supplied from water mains}

1/0015 . {the beverage being prepared by mixing at least two liquid components}

1/0016 . . {the beverage being stored in an intermediate container before dispensing, i.e. pre-mix dispensers}

1/0017 . . . {the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0018 . . . . {based on the timed opening of a valve}

1/0019 . . . . {based on volumetric dosing}

1/002 . . . . {based on weighing}

1/0021 . . {the components being mixed at the time of dispensing, i.e. post-mix dispensers}

1/0022 . . . {the apparatus comprising means for automatically controlling the amount to be dispensed}

1/0023 . . . . {control of the amount of the mixture, i.e. after mixing}

1/0024 . . . . . {based on the timed opening of a valve}

1/0025 . . . . . {based on volumetric dosing}

1/0026 . . . . . {based on weighing}

1/0027 . . . . {control of the amount of one component, the amount of the other components(s) being dependent on that control}

1/0028 . . . . . {based on the timed opening of a valve}

1/0029 . . . . . {based on volumetric dosing}

1/003 . . . . . {by means of a dosing chamber}

1/0031 . . . . . {in the form of a metering pump}

1/0032 . . . . . {using flow-rate sensors}

1/0033 . . . . . {based on weighing}

1/0034 . . . . {for controlling the amount of each component}

1/0035 . . . . . {the controls being based on the same metering technics}

1/0036 . . . . . {based on the timed opening of valves}

1/0037 . . . . . {based on volumetric dosing}

1/0038 . . . . . {based on weighing}

1/0039 . . . . . {the controls involving at least two different metering technics}

1/004 . . {the diluent being supplied from water mains}

1/0041 . {Fully automated cocktail bars, i.e. apparatuses combining the use of packaged beverages, pre-mix and post-mix dispensers}

1/0042 . {Details of specific parts of the dispensers}

1/0043 . . {Mixing devices for liquids}

1/0044 . . . {for mixing inside the dispensing nozzle}

1/0045 . . . . {Venturi arrangements; Aspirators; Eductors}

1/0046 . . . . {Mixing chambers}

1/0047 . . . . . {with movable parts, e.g. for stirring}

1/0048 . . . . . {with baffles}

1/0049 . . . . . {with means for diverging streams}

1/005 . . . . . {with means for converging streams}

1/0051 . . . {for mixing outside the nozzle}

1/0052 . . . . {by means for directing respective streams together}

1/0053 . . . . {by stirring in the cup}

1/0054 . . . {Recirculation means}

1/0055 . . . . {with fountain effect}

1/0056 . . . . . {with illumination}

1/0057 . . {Carbonators}

1/0058 . . . {In-line carbonators}

1/0059 . . . . {in combination with a mixer tap (constructional features of the tap E03C 1/04)}

1/006 . . . {Conventional carbonators}

1/0061 . . . {with cooling means}

1/0062 . . . . {inside the carbonator}

1/0063 . . . . . {Cooling coil}

1/0064 . . . . . {Cold plate}

1/0065 . . . . . {Ice bank}

1/0066 . . . . {outside the carbonator}

1/0067 . . . . . {Cooling coil}

1/0068 . . . . . {Cooling bath}

1/0069 . . . {Details}
1/007 . . . . {Structure of the carbonating chamber}
1/0071 . . . . {Carbonating by injecting CO_2 in the liquid}
1/0072 . . . . . {through a diffuser, a bubbler}
1/0073 . . . . {Carbonating by spraying the liquid}
1/0074 . . . . {Automatic carbonation control}
1/0075 . . . . . {by sensing gas pressure}
1/0076 . . . . . {by sensing temperature}
1/0077 . . . . {Carbonator being specially adapted for adding a second gas to the CO_2}
1/0078 . . {Ingredient cartridges}
1/0079 . . . {having their own dispensing means}
1/008 . . . {Gas cartridges or bottles}
1/0081 . . {Dispensing valves}
1/0082 . . . {entirely mechanical}
1/0083 . . . . {with means for separately dispensing a single or a mixture of drinks}
1/0084 . . . . . {Hand-held gun type valves}
1/0085 . . . {electro-mechanical}
1/0086 . . . . {Hand-held gun type valves}
2001/0087 . . . {being mounted on the dispenser housing}
2001/0088 . . . . {operated by push buttons}
2001/0089 . . . . {operated by lever means}
2001/009 . . . . {operated by cup detection}
2001/0091 . {Component storage means}
2001/0092 . . {Containers for gas, for, e.g. CO_2, N_2}
2001/0093 . {Valves}
2001/0094 . . {Valve mountings in dispensers}
2001/0095 . {Constructional details}
2001/0096 . . {Means for pressurizing liquid}
2001/0097 . . . {using a pump}
2001/0098 . . . {using a gas}
1/02 . Beer engines or like manually-operable pumping apparatus
1/025 . . {with means for carbonating the beverage, or for maintaining its carbonation}
1/04 . Apparatus utilising compressed air or other gas acting directly or indirectly on beverages in storage containers
1/0406 . . {with means for carbonating the beverage, or for maintaining its carbonation (B67D 1/0418 takes precedence)}
1/0412 . . {the whole dispensing unit being fixed to the container}
1/0418 . . . {comprising a CO_2 cartridge for dispensing and carbonating the beverage}
1/0425 . . . {comprising an air pump system}
1/0431 . . . . {power-operated}
1/0437 . . . {comprising a gas pressure space within the container for the liquid}
1/0443 . . . {comprising a gas generator (apparatus for generating gases in general B01J 7/00)}
1/045 . . {using elastic bags and pistons actuated by air or other gas}
1/0456 . . {Siphons, i.e. beverage containers under gas pressure without supply of further pressurised gas during dispensing}
1/0462 . . {Squeezing collapsible or flexible beverage containers, e.g. bag-in-box containers}
1/0468 . . {comprising means for the recovery of the gas acting on beverages}
2001/0475 . . {Type of gas or gas mixture used, other than pure CO_2}
2001/0481 . . . {Single inert gas, e.g. N_2}
2001/0487 . . . {Mixture of gases, e.g. N_2 + CO_2}
2001/0493 . . . . {Air}
1/06 . Mountings or arrangements of dispensing apparatus in or on shop or bar counters (shop or bar counters per se A47F 9/00)
1/07 . Cleaning beverage-dispensing apparatus {(B67D 1/0834, B67D 1/0837 take precedence)}
2001/075 . . {Sanitising or sterilising the apparatus}
1/08 . Details
1/0801 . . {of beverage containers, e.g. casks, kegs}
1/0802 . . . {Dip tubes}
1/0804 . . . {Shape or materials}
1/0805 . . . {Openings for filling}
1/0807 . . . {Openings for emptying, e.g. taped openings}
1/0808 . . . {Closing means, e.g. bungholes, barrel bungs}
1/0809 . . . {Opening means, e.g. means for assisting the opening}
2001/0811 . . . {provided with coded information}
2001/0812 . . . {Bottles, cartridges or similar containers}
2001/0814 . . . . {for upside down use}
2001/0815 . . . . . {with integral venting tube}
2001/0817 . . . . . {with a venting orifice}
2001/0818 . . . . {arranged in series}
2001/082 . . . . {arranged in parallel}
2001/0821 . . . . {having different compartments for different components}
2001/0822 . . . {Pressurised rigid containers, e.g. kegs, figals}
2001/0824 . . . . {with dip tubes}
2001/0825 . . . . {details of dip tube}
2001/0827 . . . {Bags in box}
2001/0828 . . . . {in pressurised housing}
1/0829 . . {Keg connection means}
1/0831 . . . {combined with valves}
1/0832 . . . . {with two valves disposed concentrically}
1/0834 . . . . . {and having means for admitting a cleaning fluid}
1/0835 . . . . {with one valve}
1/0837 . . . . . {and having means for admitting a cleaning fluid}
1/0838 . . . . {comprising means for preventing blow-out on disassembly of the spear valve}
1/0839 . . . {Automatically operating handles for locking or unlocking a connector to or from a keg}
1/0841 . . . {Details}
1/0842 . . . . {Multiple connectors, e.g. for simultaneously connecting several containers}
1/0844 . . . . {for containers in crates}
1/0845 . . . . {Security means}
1/0847 . . . . {Tamper-evident devices}
1/0848 . . . . {Locking means}
1/0849 . . . . {provided with means to open the keg valve when gas pressure is applied to it}
1/0851 . . . . {composed of a piston and ram assembly, e.g. tappet}
1/0852 . . . . {composed of a membrane and ram assembly}
1/0854 . . . . {provided with means to open the keg valve when water pressure is applied to it}

1/0855 . . {concerning the used flowmeter (flowmeter per se G01F 1/00, G01F 3/00)}
1/0857 . . {Cooling arrangements (cooling systems per se F25B)}
1/0858 . . . {using compression systems}
1/0859 . . . . {the evaporator being in direct heat contact with the beverage, e.g. placed inside a beverage container}
1/0861 . . . . {the evaporator acting through an intermediate heat transfer means}
1/0862 . . . . . {in the form of a cold plate or a cooling block}
1/0864 . . . . . {in the form of a cooling bath}
1/0865 . . . . . {by circulating a cooling fluid along beverage supply lines, e.g. pythons}
1/0867 . . . . . {the cooling fluid being a liquid}
1/0868 . . . . . {the cooling fluid being a gas}
1/0869 . . . {using solid state elements, e.g. Peltier cells}
1/0871 . . {Level gauges for beverage storage containers (level indicators in general G01F)}
1/0872 . . {Aesthetics, advertising}
1/0874 . . . {Means for illuminating the handle of taps or faucets}
1/0875 . . . {Means for illuminating the beverage to be dispensed}
1/0877 . . . {Advertising means (advertising in general G09F)}
1/0878 . . {Safety, warning or controlling devices (B67D 1/12 takes precedence)}
1/0879 . . . {Doors for protecting the vessel to be filled}
1/0881 . . . {Means for counting the doses of dispensed liquid}
1/0882 . . . {Devices for controlling the dispensing conditions}
1/0884 . . . . {Means for controlling the parameters of the state of the liquid to be dispensed, e.g. temperature, pressure}
1/0885 . . . . {Means for dispensing under specific atmospheric conditions, e.g. under inert gas}
1/0887 . . . {Sanitary protection means for dispensing nozzles or taps, e.g. outlet closures}
1/0888 . . {Means comprising electronic circuitry (e.g. control panels, switching or controlling means)}
1/0889 . . {Supports}
1/0891 . . . {for the beverage container}
1/0892 . . . . {the beverage container being stored in a rack or shelf}
1/0894 . . . {for the vessel to be filled}
1/0895 . . {Heating arrangements}
1/0897 . . . {located in nozzles}
1/0898 . . . {Beer warmers (B67D 1/0897 takes precedence)}
1/10 . . Pump mechanism (in general F04)
1/101 . . . {of the piston-cylinder type}
1/102 . . . . {for one liquid component only}
1/103 . . . . . {the piston being driven by a liquid or a gas}
1/104 . . . . . {by the liquid to be dispensed}
1/105 . . . . {for two or more components}
1/106 . . . . . {the piston being driven by a liquid or a gas}
1/107 . . . . . {by one of the components to be dispensed}
1/108 . . . {of the peristaltic type}
1/12 . . Flow or pressure control devices or systems {, e.g. valves, gas pressure control, level control in storage containers}
1/1202 . . . {Flow control, e.g. for controlling total amount or mixture ratio of liquids to be dispensed}
1/1204 . . . . {for ratio control purposes}
1/1206 . . . . . {Flow detectors}
1/1209 . . . . . {combined with a timer}
1/1211 . . . . . {Flow rate sensor}
1/1213 . . . . . {combined with a timer}
1/1215 . . . . . {combined with a counter}
1/1218 . . . . . {modulating the opening of a valve}
1/122 . . . . . {modulating a pumping rate}
1/1222 . . . . . {Pressure gauges}
1/1225 . . . . . {Weighing}
1/1227 . . . . . {the cup to be filled}
1/1229 . . . . . {the storage container}
1/1231 . . . . . {Metering pumps}
1/1234 . . . . {to determine the total amount}
1/1236 . . . . . {comprising means for detecting the size of vessels to be filled}
1/1238 . . . . . {comprising means for detecting the liquid level in vessels to be filled, e.g. using ultrasonic waves, optical reflexion, probes}
1/124 . . . . . {the flow being started or stopped by means actuated by the vessel to be filled, e.g. by switches, weighing}
1/1243 . . . . . {comprising flow or pressure sensors, e.g. for controlling pumps}
1/1245 . . . {Change-over devices, i.e. connecting a flow line from an empty container to a full one}
1/1247 . . . {Means for detecting the presence or absence of liquid}
1/125 . . . {Safety means, e.g. over-pressure valves}
1/1252 . . . {Gas pressure control means, e.g. for maintaining proper carbonation (for beer engines B67D 1/025)}
2001/1254 . . . . {comprising means for making a mixture of gases}
1/1256 . . . {Anti-dripping devices (Drip trays B67D 1/16)}
2001/1259 . . . {Fluid level control devices}
2001/1261 . . . . {the level being detected mechanically}
2001/1263 . . . . {the level being detected electrically}
2001/1265 . . . . . {Pressure switches}
2001/1268 . . . . . {Capacitors}
1/127 . . . {Froth control (B67D 1/1411 takes precedence)}
1/1272 . . . . {preventing froth}
1/1275 . . . . {promoting froth}
1/1277 . . . {Flow control valves}
1/1279 . . . . {regulating the flow}
1/1281 . . . . . {responsive to pressure}
1/1284 . . . {Ratio control}
1/1286 . . . . {by mechanical construction}
1/1288 . . . . . {Multi-chamber piston pumps (construction of pumps: B67D 1/10)}
1/129 . . . . . {Means for changing the ratio by acting on structural parts}
1/1293 . . . . . {Means for changing the ratio by acting on commands}

1/1295 . . . . {Ratio defined by setting flow controllers}
1/1297 . . . . {Ratio defined by setting of timers}
1/14 . . . Reducing valves or control taps
1/1405 . . . . {Control taps}
1/1411 . . . . . {Means for controlling the build-up of foam in the container to be filled}
1/1416 . . . . . {comprising foam inducing means}
1/1422 . . . . . {comprising foam avoiding means}
1/1427 . . . . . {by rotating the container to be filled}
1/1433 . . . . . {by delivering the beverage using a helical movement}
1/1438 . . . . . {comprising a valve shutter movable in a direction parallel to the valve seat, e.g. sliding or rotating}
1/1444 . . . . . {the valve shutter being rotated}
1/145 . . . . . {comprising a valve shutter movable in a direction perpendicular to the valve seat}
1/1455 . . . . . {the valve shutter being opened in the same direction as the liquid flow}
1/1461 . . . . . {the valve shutter being integral with a compensator}
1/1466 . . . . . {the valve shutter being opened in a direction opposite to the liquid flow}
1/1472 . . . . . {the valve shutter being integral with a compensator}
1/1477 . . . . . {Devices for assisting tap handling, e.g. levers}
2001/1483 . . . . {electrically or electro-mechanically operated}
2001/1488 . . . . {pneumatically operated}
2001/1494 . . . . {Taps with means for adjusting the position of a compensator from outside}
1/16 . . Devices for collecting spilled beverages
1/165 . . . {and re-injecting them in the dispensing line}

3/00 Apparatus or devices for controlling flow of liquids under gravity from storage containers for dispensing purposes (separating and dispensing metered quantities of liquids G01F)

3/0003 . {provided with automatic fluid control means}
3/0006 . . {responsive to coded information provided on the neck or spout of the storage container, e.g. bar-code, magnets or transponder}
3/0009 . {provided with cooling arrangements (cooling perse F25)}
3/0012 . {provided with mixing devices}
3/0016 . . {Mixing valves or taps}
3/0019 . {using ingredient cartridges}
3/0022 . {provided with heating arrangements}
3/0025 . {provided with dispensing valves actuated by the receptacle to be filled (B67D 3/02 takes precedence)}
3/0029 . {provided with holders for bottles or similar containers}
3/0032 . . {the bottle or container being held upside down and provided with a closure, e.g. a cap, adapted to cooperate with a feed tube}
3/0035 . . {the bottle or container being held upside down and not provided with a closure, e.g. a bottle screwed onto a base of a dispenser}
3/0038 . {the liquid being stored in an intermediate container prior to dispensing}
3/0041 . {with provisions for metering the liquid to be dispensed}
3/0045 . . {by filling a predetermined volume before dispensing}
3/0048 . {using siphoning arrangements}
3/0051 . {dispensing by tilting}
3/0054 . {Mounting or arrangements of dispensing apparatus in shops or bar counters}
3/0058 . {Details}
3/0061 . . {of liquid containers, e.g. filling, emptying, closing or opening means}
3/0064 . . . {Dip tubes}
3/0067 . . . {relating to shape or materials, e.g. bag-in-box packages [BIB], pouches}
3/007 . . . {containers with adjustable volume}
3/0074 . . {Safety or warning devices}
3/0077 . . {Electronic circuitry}
3/008 . . {Supports}
3/0083 . . . {for the liquid container}
3/0087 . . . . {the beverage container being stored in a rack or shelf}
3/009 . . . {for the vessel to be filled}
3/0093 . . {Level indicators}
3/0096 . . {Aesthetics, advertising}
3/02 . Liquid-dispensing valves having operating members arranged to be pressed upwards, e.g. by the rims of receptacles held below the delivery orifice
3/04 . Liquid-dispensing taps or cocks adapted to seal and open tapping holes of casks, e.g. for beer {(closures with filling and discharging devices for containers B65D 47/00)}
3/041 . . {operated by pinching action on flexible tubes}
3/042 . . {operated by deforming a membrane-like closing element}
3/043 . . {with a closing element having a linear movement, in a direction perpendicular to the seat}
3/044 . . . {and venting means operated automatically with the tap}
3/045 . . {with a closing element having a linear movement, in a direction parallel to the seat}
3/046 . . . {and venting means operated automatically with the tap}
3/047 . . {with a closing element having a rotational movement}
3/048 . . . {and venting means operated automatically with the tap}

7/00 Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers, e.g. for retail sale purposes (general disposition of plant in stations for supplying fuel to vehicles B60S 5/02; for filling or emptying locomotive water tanks, e.g. water columns, B61K 11/00; for refuelling aircraft during flight B64D 39/00; liquid- handling ground installations specially adapted for fuelling stationary aircraft B64F 1/28)

7/002 . {using articulated pipes}
7/005 . {Spouts}
7/007 . {using siphoning arrangements}
7/02 . for transferring liquids other than fuel or lubricants
7/0205 . . {by manually operable pumping apparatus (Hand-held apparatus with pumps for dispensing or spraying liquids or fluent materials B05B 11/00)}
7/0211 . . . {with pump locking means}

7/0216 . . {by squeezing collapsible or flexible storage containers (B67D 7/0255 takes precedence; for dispensing beverages on draught B67D 1/0001)}
7/0222 . . . {the dispensed quantity of liquid being replaced by air sucked through the dispensing opening}
7/0227 . . {by an ejection plunger (B67D 7/0238 takes precedence)}
7/0233 . . . {the plunger being gas driven}
7/0238 . . {utilising compressed air or other gas acting directly or indirectly on liquids in storage containers (for dispensing beverages on draught B67D 1/04)}
7/0244 . . . {by using elastic expandable bags}
7/025 . . . . {specially adapted for transferring liquids of high purity}
7/0255 . . . {squeezing collapsible or flexible storage containers (for dispensing beverages on draught B67D 1/0462)}
7/0261 . . . . {specially adapted for transferring liquids of high purity}
7/0266 . . . {by gas acting directly on the liquid}
7/0272 . . . . {specially adapted for transferring liquids of high purity}
7/0277 . . {using negative pressure}
7/0283 . . . {specially adapted for transferring liquids of high purity}
7/0288 . . {Container connection means (for dispensing beverages on draught B67D 1/0829)}
7/0294 . . . {Combined with valves}
7/04 . for transferring fuels, lubricants or mixed fuels and lubricants
7/0401 . . {arrangements for automatically fuelling vehicles, i.e. without human intervention}
2007/0403 . . . {Fuelling robots}
2007/0405 . . . . {Opening devices}
2007/0407 . . . . . {for fuel tank flaps}
2007/0409 . . . . . {using vacuum cups}
2007/0411 . . . . . {using grippers}
2007/0413 . . . . . {using air blast}
2007/0415 . . . . . {for filler caps}
2007/0417 . . . . {Manipulator arms}
2007/0419 . . . . {Fuelling nozzles}
2007/0421 . . . . . {with locking devices}
2007/0423 . . . . {Fuelling hoses}
2007/0425 . . . . . {comprising a single hose for several fuels}
2007/0426 . . . . . {comprising several hoses for several fuels}
2007/0428 . . . . . {having devices to avoid a mix up of different fuels}
2007/043 . . . . {Moveable}
2007/0432 . . . . . {according to a planar coordinate system}
2007/0434 . . . . . {with the ability to compensate movements of the car during filling}
2007/0436 . . . . . {according to a spatial coordinate system}
2007/0438 . . . . . {with the ability to conpensate movements of the car during filling}
2007/044 . . . {Customer interfaces}
2007/0442 . . . . {interface for orders and payments}
2007/0444 . . . {Sensors}
2007/0446 . . . . {measuring physical properties of the fluid to be dispensed}
2007/0448 . . . . . {Density}
2007/0449 . . . . . {Viscosity}
2007/0451 . . . . . {Temperature}
2007/0453 . . . . {recognising the fuel to be dispensed}
2007/0455 . . . . {recognising the position}
2007/0457 . . . . . {of the car}
2007/0459 . . . . . {by interrogating a transponder}
2007/0461 . . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
2007/0463 . . . . . {optically}
2007/0465 . . . . . {by GPS}
2007/0467 . . . . . {of the fuel tank flap and/or fuel tank opening}
2007/0469 . . . . . {by interrogating a transponder}
2007/0471 . . . . . {by calculating from a reference position, e.g. the car's silhouette, reference marks}
2007/0473 . . . . . {optically}
2007/0474 . . . . . {of the filling nozzle relative to the fuel tank opening, e.g. engagement between nozzle and tank opening}
7/0476 . . {Vapour recovery systems}
7/0478 . . . {constructional features or components (vapour recovery nozzles B67D 7/54)}
7/048 . . . . {Vapour flow control means, e.g. valves, pumps}
7/0482 . . . . . {using pumps driven at different flow rates}
7/0484 . . . . . {Liquid jet pumps, e.g. venturis}
7/0486 . . . . . {Pumps driven in response to electric signals indicative of pressure, temperature or liquid flow}
7/0488 . . . . {Means for preventing the formation of condensation on, or for removing condensation from, vapour recovery lines}
7/049 . . . . {Vapour recovery methods, e.g. condensing the vapour}
7/0492 . . . . {Vapour storing means, e.g. dedicated ullage spaces, separate tanks}
2007/0494 . . . . {Means for condensing the vapours and reintroducing them into the storage tanks}
7/0496 . . . {Performance test devices therefor}
7/0498 . . {Arrangements specially adapted for transferring biofuels, e.g. ethanol-gasoline mixture}
7/06 . Details or accessories
7/061 . . {Means for transferring liquids from a chosen level of a storage container}
7/062 . . . {from the free surface level of the liquid}
7/064 . . {Drive-off preventing means, e.g. in case of non-payment}
7/065 . . . {acting on the vehicle}
7/067 . . . {using communication means}
7/068 . . . {using imaging means, e.g. cameras}
7/08 . . Arrangements of devices for controlling, indicating, metering or registering quantity or price of liquid transferred (arrangement of flow- or pressure-control valves B67D 7/36; computing, calculating, counting G06; coin-freed apparatus for dispensing fluids G07F 13/00; prepayment devices for metering liquids G07F 15/00)
7/085 . . . {Testing or calibrating apparatus therefore (testing or calibrating apparatus for measuring volume flow in general G01F 25/00)}
7/10 . . . operated by keys, push-buttons or cash registers

7/103 . . . . {operated by keys}
7/106 . . . . {operated by push-buttons}
7/12 . . . operated by movement of delivery hose or nozzle or by devices associated therewith
7/14 . . . responsive to input of recorded programmed information, e.g. on punched cards
7/145 . . . . {by wireless communication means, e.g. RF, transponders or the like}
7/16 . . . Arrangements of liquid meters
7/163 . . . . {of fixed measuring chamber type}
7/166 . . . . . {comprising at least two chambers}
7/18 . . . . of piston type
7/20 . . . . of rotary type
7/22 . . . Arrangements of indicators or registers (indicating or recording in fluid meters G01F 15/06)
7/221 . . . . {using electrical or electro-mechanical means (B67D 7/224 takes precedence)}
7/222 . . . . . {involving digital counting}
7/224 . . . . {involving price indicators}
7/225 . . . . . {combined with variators}
7/227 . . . . . {using electrical or electro-mechanical means}
7/228 . . . . . {using digital counting}
7/24 . . . . with means for producing or issuing a receipt or record of sale
7/243 . . . . . {using electrical or electro-mechanical means}
7/246 . . . . . {involving digital counting}
7/26 . . . . with resetting or zeroing means
7/263 . . . . . {using electrical or electro-mechanical means}
7/266 . . . . . {involving digital counting}
7/28 . . . with automatic means for reducing or intermittently interrupting flow before completion of delivery, e.g. to produce dribble feed
7/30 . . . with means for predetermining quantity of liquid to be transferred (B67D 7/10, B67D 7/14 take precedence)
7/301 . . . . {using mechanical means (B67D 7/306 takes precedence)}
7/302 . . . . {using electrical or electro-mechanical means (B67D 7/307 takes precedence)}
7/303 . . . . . {involving digital counting}
7/305 . . . . {in function of money to be spent therefor}
7/306 . . . . . {using mechanical means}
7/307 . . . . . {using electrical or electro-mechanical means}
7/308 . . . . . {involving digital counting}
7/32 . . Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid
7/3209 . . . {relating to spillage or leakage, e.g. spill containments, leak detection (leak detectors for underground fuel dispensing systems G01M 3/2892)}
7/3218 . . . {relating to emergency shut-off means}
7/3227 . . . {relating to venting of a container during loading or unloading}
7/3236 . . . {relating to electrostatic charges}
7/3245 . . . {relating to the transfer method}
7/3254 . . . . {using a pressurised liquid acting directly or indirectly on the bulk of the liquid to be transferred}
7/3263 . . . . {using a pressurised gas acting directly or indirectly on the bulk of the liquid to be transferred (use of compressed air or gas for transferring liquids B67D 7/0238, B67D 7/72)}
7/3272 . . . . {using pumps}
7/3281 . . . {Details}
2007/329 . . . . {Function indicator devices}
7/34 . . . Means for preventing unauthorised delivery of liquid
7/342 . . . . {by discriminating the kind of liquid by analysis or by physical properties, e.g. vapour-pressure}
7/344 . . . . {by checking a correct coupling or coded information}
7/346 . . . . . {by reading a code}
7/348 . . . . . {by interrogating an information transmitter, e.g. a transponder (B67D 7/145 takes precedence)}
7/36 . . Arrangements of flow- or pressure-control valves (associated with nozzles B67D 7/42)
7/362 . . . {combined with over-fill preventing means (indicating or measuring liquid level G01F 23/00; level control G05D 9/00)}
7/365 . . . . {using floats}
7/367 . . . . . {the float acting pneumatically on a shut-off valve}
7/38 . . Arrangements of hoses, e.g. operative connection with pump motor (hoses in general F16L 11/00)
7/40 . . . Suspending, reeling or storing devices (supports for storing lengths of hoses, in general B65H 75/34)
7/403 . . . . {the hose carrier comprising a sliding unit}
7/406 . . . . {the hose carrier comprising a pivoting unit}
7/42 . . Filling nozzles
7/421 . . . {comprising protective covers, e.g. anti-splash attachments}
7/423 . . . {specially adapted for blending several fluids (mixing devices B67D 7/74)}
7/425 . . . {including components powered by electricity or light}
7/426 . . . {including means for displaying information, e.g. for advertising (B67D 7/425 takes precedence)}
7/428 . . . {for delivering at least two different liquids into separate containers}
7/44 . . . automatically closing
7/445 . . . . {after a predetermined time}
7/46 . . . . when liquid in container to be filled reaches a predetermined level
7/465 . . . . . {Electrical probes sensing the level of the liquid}
7/48 . . . . . by making use of air suction through an opening closed by the rising liquid
7/50 . . . . and provided with an additional hand lever
7/52 . . . . and provided with additional flow-controlling valve means
7/54 . . . with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour (B67D 7/44 takes precedence)

2007/545 . . . . {Additional means for preventing dispensing of liquid by incorrect sealing engagement with the tank opening of the vapour recovering means, e.g. bellows, shrouds}
7/56 . . Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes (indicating or recording presence, absence or direction of movement G01P 13/00)
7/565 . . . {for indicating end of flow, e.g. by optical or audible signals}
7/58 . . Arrangements of pumps
7/60 . . . manually operable
7/62 . . . power operated
7/64 . . . . of piston type
7/645 . . . . . {Barrel pumps}
7/66 . . . . of rotary type
7/68 . . . submerged in storage tank or reservoir
7/70 . . . of two or more pumps in series or parallel
7/72 . . Devices for applying air or other gas pressure for forcing liquid to delivery point
7/725 . . . {using negative pressure}
7/74 . . Devices for mixing two or more different liquids to be transferred (coin-freed apparatus G07F 13/06)
7/741 . . . {mechanically operated}
7/742 . . . . {involving mechanical counters, e.g. of clock-work type}
7/743 . . . {electrically or electro-mechanically operated}
7/744 . . . . {involving digital counting}
2007/745 . . . {for obtaining fuel of a given octane level}
2007/746 . . . . {by mixing different fuel grades or fuel and oil}
2007/747 . . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}
2007/748 . . . . {by mixing fuel with additives, e.g. anti-knocking agents}
2007/749 . . . . . {involving means responsive to the octane level, e.g. octane sensor, knock engine}
7/76 . . Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators
7/763 . . . {of air separators}
7/766 . . . {of water separators}
7/78 . . Arrangements of storage tanks, reservoirs or pipe-lines
7/80 . . Arrangements of heating or cooling devices for liquids to be transferred
7/82 . . . Heating only
7/84 . . Casings, cabinets or frameworks; Trolleys or like movable supports
7/845 . . . {Trolleys or like movable supports}
7/86 . . Illuminating arrangements

9/00 Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00)
9/02 . using articulated pipes

99/00 Subject matter not provided for in other groups of this subclass

2210/00 Indexing scheme relating to aspects and details of apparatus or devices for dispensing beverages on draught or for controlling flow of liquids under gravity from storage containers for dispensing purposes
2210/00002 . Purifying means
2210/00005 . . Filters
2210/00007 . . . for gas
2210/0001 . . . for liquid
2210/00013 . . Sterilising means
2210/00015 . . . UV radiation
2210/00018 . . . Membranes
2210/0002 . . . Distillators
2210/00023 . . . Oxygenators
2210/00026 . . . Heaters
2210/00028 . Constructional details
2210/00031 . . Housing
2210/00034 . . . Modules
2210/00036 . . . . for use with or in refrigerators
2210/00039 . . . Panels
2210/00041 . . . Doors
2210/00044 . . . Insulation
2210/00047 . . Piping
2210/00049 . . . Pipes
2210/00052 . . . . with flow tranquilisers
2210/00055 . . . . with turbulent flow generators, e.g. vortices
2210/00057 . . . . adapted for being easily cleaned
2210/0006 . . . Manifolds
2210/00062 . . . Pipe joints
2210/00065 . . related to the use of drinking cups or glasses
2210/00068 . . . Means for filling simultaneously a plurality of cups
2210/0007 . . . For use with partially pre-filled cups
2210/00073 . . . Cup cleaning devices
2210/00076 . . . Cup conveyors
2210/00078 . . . Cup dispensers
2210/00081 . . related to bartenders
2210/00083 . . . Access code recognition means
2210/00086 . . . Selector circuits
2210/00089 . . . Remote control means, e.g. by electromagnetic signals
2210/00091 . . . Bar management means
2210/00094 . . Ergonomics
2210/00097 . . . Handling of storage containers
2210/00099 . . Temperature control
2210/00102 . . . Heating only
2210/00104 . . . Cooling only
2210/00107 . . . . by spraying fluids on the inner or outer surfaces of the receptacles to be filled
2210/0011 . . . . . The sprayed fluid being a liquid
2210/00112 . . . . . The sprayed fluid being a gas
2210/00115 . . . . . The sprayed fluid being a cryogen
2210/00118 . . . Heating and cooling
2210/0012 . . related to concentrate handling
2210/00123 . . . Preparing a mix of concentrates
2210/00125 . . . Treating or conditioning the concentrate, e.g. by heating, freezing
2210/00128 . . relating to outdoor use; movable; portable
2210/00131 . . . wearable by a person, e.g. as a backpack or helmet
2210/00133 . . . wheeled
2210/00136 . . . . vehicle carried

2210/00139 . . . . Trolleys
2210/00141 . . Other parts
2210/00144 . . . Magnets, e.g. used in valves or for stirring
2210/00146 . Component storage means
2210/00149 . . Fixed containers to be filled in situ
2210/00152 . . . Automatically
2210/00154 . . . . Level detected by a float
2210/00157 . . . . Level detected electrically by contact with sensors
2210/0016 . Adapted for dispensing high viscosity products
2210/00163 . . Agitators
2210/00166 . . Heated tubes